

Abstract

A mix-in structure for a gas or the like in a pressurization centrifugal pump, capable of mix-discharging liquid and gas or the like to prevent cavitation and of suppressing gas residence in the pump chamber at the time of operation stoppage or the like. It comprises a drum-like case having a suction port and a delivery port, in which opposedly disposed are a vane wheel radially formed with a plurality of vanes, a pressurization surface formed with a compression chamber opposed to the vane wheel and converging from the suction port toward the vanes, and pressurization section formed with a pressurization partition wall disposed close to the side surfaces of the vanes to prevent leakage of the fluid in the vane chamber, wherein a gas supply device is installed for supplying a gas into the suction port by an increase in the liquid pressure in the delivery port by using a pressurization centrifugal pump for pressurizing the liquid taken in from the suction port in a pump chamber defined by the vane wheel and the pressurization section and delivering it through the delivery port.